

SATURDAY . . . . . JUNE 13, 1908.



POTATO SCAB.

Some Suggestions for the Treatment of the Disease.

The true potato scab is a skin disease, and develops from a germ. A picture of scabby seed is shown. There will be no scab on the crop unless these germs are either in the soil when the crop is planted or on the seed. Prevention therefore depends upon two things. We should avoid planting in soil where the germs are found. If this is impossible we should handle the soil so that the germs will not be active. It seems to be settled that sulphur acts to destroy the germs. Some potato growers in places where scab is bad put sulphur in the hill or drill. When potato planters are used the sulphur is mixed in the hopper and dropped with the seed into the furrow. It helps destroy the scab and prevents the seed pieces from rotting, especially in a damp season. The scab germs develop best in an alkaline soil. Lime, wood ashes and manure are all alkaline, and will usually cause trouble when the soil is known to be well supplied with the germs. When a green crop is plowed under the soil is soured more or less, and this condition is best for scabby ground or seed. We have known farms



field would show far more scab than another and some seasons seem to favor the growth of seab. On those to show that the theory about a sour

the seed-dusting with sulphur, soak- the water sent up by the roots. ing with some chemical to destroy the germs, and fumigation. The dusting by together and covered by a sack is easiest, but not always effective. We cut the seed into peach baskets and malin is now generally used. This bon dioxide and give up oxygen. liquid chemical, also called formaldehyde, can be bought at drug stores The proportion is one pint of formalin to 30 gallons of water. It can be put in a barrel or large tank, depending on the amount of seed to be soaked. We use two barrels, one with the soaking liquid and the other containing clear water. The potatoes are first rinsed in the water. They are put in a coarse sack and soused up and down in the barrel. An easy way to do this is to have a pulley fastened over the barrel so that the bass can be easily raised or lowered. After rinsing the bag is lowered into the solution and kept there two hours. Then the potatoes are taken out, dried and cut. The rinsing takes off the dust, thus making the solution cleaner. Farmers have different methods of doing this soaking. The principle is to keep the seed in long enough to kill the scab germs without hurting the sprouts.

Fumigation is now used by some large growers, says the Rural New Yorker. At first experiments were tried with sulphur fumes, as they are used for fumigating houses, but this did not succeed. Now the gas from formaldehyde is used with success. Instead of scaking the seed in a solution of this chemical it is turned into a gas and held in a close room with the seed. The process is described as fol-

washtub about 15 inches in diameter at the bottom was placed in the center floor, midway between the two lines of crates filled with potatoes. When ready to use 31% ounces of potassium permanganate was spread evenly over the bottom of the tob, then four pints dehyde poured over this. The tub | and rewriting. was given one rapid tilt to entirely wet the potassium permanganate with the formalin and then the door was quickly and tightly closed from without. The almost entire absence of the odor of escaping gas while the treatment was in progress indicated that the room var practically air tight, life. The door remained closed for 24 hours, and when opened the gas was still the distribution in finished a dis. zine.

tipet odor of formaldehyde could be detected in the room. The seed for the entire 20 acres was treated in this way, care being taken to place the treated seed in barrels which had never been used for potatoes before. This is to avoid contamination in taking to the field after treatment."

PHYSIOLOGY OF TREES.

Some Facts as to Their Life and Growth

Roots and leaves are the life or gans of trees. A large part of the roots, however, only serve as conductors of water and food material. The young fibrous roots that are covered by fine hairs, are the only ones which take water and minerals from the soil. The trunk and branches simply serve as conductors of food material between the leaves and roots. the fibrous rdots are cut off or exposed so that they dry out, the tree will, in all probability, die.

Some trees, like locusts, willows. poplars, etc., have the power of renewing their roots readily. Such trees always transplant easily. There fore, the first care in transplanting trees is to keep the fibrous roots from drying out, and to protect them from injury during the time which transpires before the tree is planted

In growing, trees build up a body of cell tissues, make foliage, flowers and fruit.

They take up food material from the soll and air, changing it into cellulose and various other compounds. Like all other plants, trees depend upon moisture, heat and light as the means of performing their growth. From the soil trees principally get water by means of the fibrous roots. This water is carried to the leaves, through the trunk and branches, be ing partly used for wood formation on its way and partly given up to the air by the leaves.

Minerals are taken only in small quantities and consist mostly of lime potash, magnesia and nitrogen. They are carried to the leaves where they combine with part of the water in fective gowns. The average dressfood preparation.

The largest amount of water, how ever, taken up by a tree, transpires, or in other words, is given to the air in the form of vapor. So most of the mineral substance remains in the leaves, these in turn return it to the soil, when they are shed and left to feet. decompose on the ground. This explains the fertility of soil in timber along this line than the suggestion land.

But now we must return to what the tree gets from the air.

The solid portions of a tree, writes B. Schwering, in Farmers' Voice, is made largely of cellulose, which con sists of carbon with hydrogen and oxygen. The tree gets its carbon by taking carbonic acid from the air, into the leaves. This, under the influence of light, air and water, is de-

Oxygen is thrown out and the re maining carbon forms compounds such as starch, sugar, etc., by combin ing with elements taken from the water. These compounds, which are where a five-year rotation is followed through the tree to the very tips used as food matter, pass downward to show some curious results. One of its roots, making new wood all

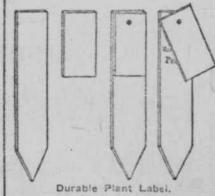
This process of food preparation can be carried on only in the green farms potatoes follow corn, and we parts which are exposed to light and clover is seeded in the corn and light a tree has, the quicker will it a solid color, and this serves for the this use alone. both dependent upon each other, for Egyptian border trims the top, both There are three methods of treating the leaves just as the leaves require The unique feature of the design is

A leaf consists of cells, lying closeknown as the epidermia. Between the cells are small spaces known as in- kimono costumes, yet eliminates the scatter three handfuls of sulphur over tercellular spaces. The epidermis has broad sleeve part. the seed as it is put in. The basket is minute openings which open into the shaken down at intervals. As it stands intercellular spaces, allowing the air border running across the front and on a paper the sulphur which falls and other gases to come in contact the back there is space for a white with the cells. These cells take car-

As oxygen is the gas which we need poison which we breathe out, it can readily be seen that every plant or tree is an important factor in the health of plants and antinals.

A DURABLE PLANT LABEL

A necessity in gardening is a plant label and the best one I have found is outre motor hats has passed, and the made from sections of lath as shown keen motorist as well as the devotee in the accompanying illustration,



writes a correspondent of Prairie Farmer. The cover is fastened with dear them to the hearts of all women. a single clinched brad or shingle nail, In linen, and especially in silk, the seso it will swing. It is quickly and vere shirt waist has a host of admirof the room about a foot from the easily made and only the part pro- ers, who are gradually but surely betecting the name need be smooth, ing drawn away from the softer lin-The name may be written in gerie fashions for morning wear. pencil or the printed name from the seed envelope may be glued on. The tailor waists. These are shown in such markers may be used many seasons, a variety of colors and widths of and one ounce of 40 per cent. formal. | gluing fresh names over, or erasing stripes in washable silks that every

> What She Did. Mrs. Stingy-Oh, Clarissa, I saw such a sad thing to-day; a poor woman with a baby, shivering out in the cold, singing along the street. I never beheld anything so pitiful before in my

> Clarissa (breathlessly)-Yes, aunt; what did you do?

so strong that it was impossible to Mrs. Stingy (sighing)--Well, my work in the room for from 20 to 30 dear, I was so upset that I had to go minutes. In fact, three weeks after and have a cup of tea.-Royal Maga-

TIES OF NARROW RIBBON.

Most Simple and Becoming Garniture for the Neck.

Narrow ribbon ties with lace tassel ends are a becoming neck finish and can be made in an hour and at a very slight cost. Half inch satin ribbon is used and a yard is sufficient for one such neck garniture. Cut the rib bon in half and hem two ends to meet at the back of the neck, either to hook or to fasten evenly with a collar pin. Then knot the front ends sailor fashion to fall somewhat loosely in the front and leave pendant ends of the ribbon two or two and a half inches long. Trim each of these ends with a lace tassel made in the following manner: Take a piece of real or imitation Valenciennes lace insertion two inches wide and use two pieces of it four or five inches long. Sew half inch Valenciennes edging straight across the bottom and up the two sides of each length of the lace insertion turning the corners flat and then plait the pieces in knife plaits just the width of the velvet ribbon. Fasten the top of the plaiting as it is gathered up into its half inch folds to the joining with a piece of the velvet doubled and sewn on perfectly flat and smooth to look like the top ornament of a tassel. These odd little neck trimmings are

really very fetching and give a pretty touch of color to a white shirt waist or blouse. They have a tailor like air, yet the lace makes them more feminine than many of the other neckties which have enjoyed a season of popularity. Bright colored ribbons are liked better than somber ones. Gauze ribbon of a delicate yet firm quality is suitable for such ties and will be used for wear with summer shirt waist suits.

IN NOVELTY BORDERED SILKS.

Material That Demands Much Care in the Fashioning.

It requires some ingenuity to fash ion the novelty bordered silks into efmaker is apt to make a fallure of them unless she uses judgment in following out the models presented by the best designers. The skirts offer fewer difficulties than the waists, which should have the colored border used without giving it a patchwork ef-

Nothing could be more charming



manipulation of wide bordered foul- frame is needed for other purposes gun in fife minutes." ard. The groundwork of the silk is and it is expensive to provide one for grow. The leat and root systems are body part of the waist, while the deep the roots need the food prepared by back and front, and makes the sleeves. the way the waist part and the sleeves are made all in one piece, giv- easily keep six or even eight kites vanished down the maddy road. ing that long, continuous line to the shoulders which is characteristic of

lace guimpe. This reaches quite to the tips of the shoulders and is crossed in bracer fashion by straps of in breathing and carbon dioxide the velvet ribbon which hold the two bordered pieces together.

Happy Inspirations. A very desirable hat is of a fine suede brown rice straw, the high crown sloping gently down to the curled brim; mousquetaire banksia One Which Will Withstand the Action roses and foliage provide the main will be right.-Dr. Alex Maclaren. portion of the trimming, the crown being further encircled with Wetteau blue velvet ribbon. The vogue for of fashion demands that above everything her hats must be comfortable, practical and becoming, and as Scotts' stitched silk motor hats possess all these qualifications they have met with an enthusiastic welcome. These new modes have a small brim slightly turned up at the edge in front to shade the eyes, their only adornment being a long ninon de soie veil, which is cunningly passed through the ear flaps, thereby fastening the hat firmly on the head. The Tatler.

Too many shirt waists cannot spoil bne's wardrobe, though they may spoil one for wearing other kinds of costumes. The ease with which they are put on, their trim look and the becoming lines of the new models en-Striped effects are the favorites for

An Appropriate Combination. "The English ought to send a baronet as representative at the court of "Why so?" "Because then they will strike the natural combination of a knight and a dey."

taste and every type of woman can

find a pattern to suit and become her.

Hashish a Grecian Product. Hashish is the product of a plant grown in large quantities in the Pelo ponesus (southern Greece) in the district about Tripolitza.

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may be obtained by good treatment dents will happen.

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going on one string.

Swiss a Temperate People. One never sees a bolsterously drunk person in a Swiss town, except in the pursuing machine. "Safed by a sautourist season, and then the offender | sage!" invariably proves to be a foreigner.

A Word from Josh Wise. "Lack o' great wealth keeps a let of people out o' th' international divorce courts."

The Motive Above All. Whatever may be the issue, let us look after the motive, and then all |

Not a Strong Point. No man ever won respect through his ability to tell salacious stories.

Flees Nude from Fiery Car. York, Pa.-When a Pennsylvania railroad supply car on a train passing Frazer's station near Philadelphia, caught fire from a hot box, Elmer S. Rohrbaugh, conductor, of this city, who had been sleeping on the car, had just time to jump and save his life. He left every article of clothing except his shoes on the car, but friends loaned him an outfit. The car contained 300 gallons of oil, including 150 gallons of kerosene, and it was hastily shoved upon a switch, where it was completely destroyed.

Swiss Chard. In many gardens beets are sown thickly so as to supply "greens." That Before making your purchase does very well, but there is a better way to supply the desired potherb.

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Not least a Multi-Millionaire
Whom each Fair Daughter plans to
snare
With maiden wiles.

and of a better quality, too.

A Despot's adamant decree,
A panic-stricken Family,
On verge of wild profanity,
Or depths of woe.
Dejected wall the Daughters Fair,
Some other'll get that millionaire!
But vain are bribe, invective, prayer,—
THE COOK WON'T GO!
—Camille J. Knight, in Puck.

quickly, but they are not productive. great sausage manufacturer, was to It does not need many hills of pole clope. Even then Hans Shongarten's Limas to supply a family and the big machine stood in the shadows of beans are delicious. The yield which the giant sausage factory. But acci-

But Gretchen was as resourceful as she was beautiful. Rushing into the rausage factory she grabbed a big red bologna and the next minute she was twisting it around the tircless

With a parting snort the machine "Goot!" whispered Hans, as he drew her closer to his manly bosom.

"Yah!" laughed Gretchen, as she watched for the lights of her father's

Knew What She Wanted. "Why not take this current, majam?" asked the date. "I want a paired to talk to and to calk back," replied Miss Edies



## JURGEN'S SON

way to supply the desired pothers.

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\$5000 in Gold to any one in the no matter how they toil, while other than the city and see this wonderful man. Readerly the only Living and see this wonderful man. Readerly the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply and the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the only Living apply a much greater fine line of the most reliable furniture the most reliable furniture the only Living apply and the most reliable furniture the only Living apply and the most reliable furniture the most reliable furniture the only Living apply and

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